

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims

1. (currently amended) A fluid treatment device comprising:
 - a. a housing for receiving a flow of fluid, said housing comprising a fluid inlet and a fluid outlet; and
 - b. at least one assembly comprising at least two of UV sources disposed between said fluid inlet and said fluid outlet, each said assembly comprising at least two UV sources horizontally disposed in a being substantially vertical plane parallel to one another wherein, at least one of said at least two UV sources is being disposed in a said plane below such other lamps-UV sources as a bottommost UV source, and operable at least one of said at least two UV sources being disposed in said plane above such other UV sources as an uppermost UV source, said bottommost UV source operating at a power level higher than that of all such other lamps UV sources in said assembly such that said fluid flowing below said bottommost UV source receives a UV irradiance that is at least substantially equal to a UV irradiance received by said fluid flowing above said uppermost UV source.
2. (currently amended) A fluid treatment device according to Claim 1, wherein each said assembly corresponds to at least one baffle, said at least one baffle is operable

operating to direct said flow of fluid into an area of each said assembly ~~the reactor~~ such that said fluid passes within ~~will receive~~ a substantially equal amount of UV irradiance certain maximum distance from at least one of said UV sources.

3. (currently amended) A fluid treatment device according to Claims 1 or 2 wherein each said at least one assembly is ~~operable~~ operates independent of said each other at least one assemblies.

4. (currently amended) A fluid treatment device according to Claim 1 or 2 wherein ~~a third said~~ two UV sources ~~is are~~ is positioned ~~downstream from a midpoint in said~~ substantially vertical line-plane followed by a third UV source positioned downstream from a midpoint in said vertical plane between said other at least two UV sources at a distance between about 0.25 and 2 times the distance between said other two UV sources.

5. (currently amended) A fluid treatment device according to Claim 1 or 2 wherein three UV sources are positioned in ~~a~~ said substantially vertical plane followed by a fourth said UV source positioned downstream from a midpoint in said vertical ~~line-plane~~ plane between said uppermost ~~top~~ and a middle of said three UV sources and a fifth said UV source is positioned downstream from a midpoint in said vertical line between said middle and bottommost ~~of said~~ three UV sources, both of said fourth and fifth UV sources disposed at a distance between about 0.25 and 2 times the distance between said ~~top~~ uppermost and middle and said middle and bottommost UV sources.

6. (currently amended) A fluid treatment device according to Claim 4 wherein said at least one baffle is adapted to direct said flow of fluid such that about 1/6 of said fluid flows above an uppermost ~~top~~ ~~said at least one~~ UV source, about 1/6 of said fluid flows below a said bottommost ~~said at least one~~ UV source and about 2/3 of said fluid flows between said ~~top~~ uppermost and bottommost ~~said at least one~~ UV sources.

7. (currently amended) A fluid treatment device according to Claim 2 having two said UV sources in each said at least one assembly wherein said at least one baffle is adapted to direct said flow of fluid such that about 1/4 of said fluid flows above a ~~top~~ ~~said at least one~~ uppermost UV source, about 1/4 of said fluid flows below a said bottommost ~~said at least one~~ UV source and about 1/2 of said fluid flows between said ~~top~~ uppermost and said bottommost ~~said at least one~~ UV sources.

8. (currently amended) A fluid treatment device according to Claim 1 wherein a ratio of ~~said at least one lamp that is adapted to be run at a higher~~ the power of said bottommost UV source to that of ~~to all such other lamps~~ UV sources is from about 1.0 to 2.0.

9. (currently amended) A fluid treatment device comprising:
a) a housing for receiving a flow of fluid, said housing comprising a fluid inlet and a fluid outlet;

b) at least ~~two~~ one assembly of UV sources disposed between said fluid inlet and said fluid outlet, each said assembly comprising at least ~~two~~ one UV ~~sources~~ source, said at least one UV source being ~~shorizontally disposed~~ substantially parallel to one another; and

c) a lower and an upper baffle wherein said lower baffle is longer than said upper baffle such that said fluid flowing below the bottommost of said at least one UV source receives a UV irradiance that is at least substantially equal to a UV irradiance received by said fluid flowing above said uppermost of said UV sources.

10. (currently amended) A fluid treatment device comprising:

a) a housing for receiving a flow of fluid, said housing comprising a fluid inlet and a fluid outlet; and

b) at least one assembly of ~~two~~ UV sources disposed between said fluid inlet and said fluid outlet, each said assembly comprising at least ~~two~~ one UV ~~sources~~ source disposed between said fluid inlet and said fluid outlet, said at least ~~being~~ substantially parallel to one UV source being horizontally disposed ~~another~~, wherein a ~~lowermost~~ bottommost of said at least ~~two~~ one UV ~~sources~~ source is positioned relatively closer to a bottom of said fluid treatment device than an uppermost of said at least ~~two~~ one UV ~~sources~~ source is to a top of said fluid treatment device.

11. (currently amended) A fluid treatment device according to Claims 2 or 9 wherein said at least one baffle is disposed at an angle of between about 90 degrees to 20 degrees to ~~the~~ a top and bottom wall of ~~the UV reactor~~ said fluid treatment device.

Please add new claims 12-13 as follows:

12. (new) A fluid treatment device according to Claim 3 wherein two UV sources are positioned in said substantially vertical plane followed by a third UV source positioned downstream from a midpoint in said vertical plane between said other two UV sources at a distance between about 0.25 and 2 times the distance between said other two UV sources.

13. (new) A fluid treatment device according to Claim 3 wherein three UV sources are positioned in said substantially vertical plane followed by a fourth said UV source positioned downstream from a midpoint in said vertical plane between said uppermost and a middle of said three UV sources and a fifth said UV source is positioned downstream from a midpoint in said vertical line between said middle and bottommost of said three UV sources, both of said fourth and fifth UV sources disposed at a distance between about 0.25 and 2 times the distance between said uppermost and middle and said middle and bottommost UV sources.

14. (new) A fluid treatment device according to Claim 12 wherein said at least one baffle is adapted to direct said flow of fluid such that about 1/6 of said fluid flows above an uppermost UV source, about 1/6 of said fluid flows below said bottommost UV source and about 2/3 of said fluid flows between said uppermost and bottommost UV sources.

15. (new) A fluid treatment device according to Claim 1 wherein a first UV Sensor is positioned at a top of each of said at least one assemblies pointing down at and measuring a

UV irradiance from said uppermost UV source and a second UV Sensor is positioned at a bottom of each of said at least one assemblies pointing up at and measuring a UV irradiance from said bottommost UV source.

16. (new) A fluid treatment device according to Claim 15 wherein said measured UV irradiance is used to control a power of said UV sources in each of said at least one assemblies such that said UV irradiance received by said UV fluid flowing below said bottommost UV source is at least substantially equal to said UV irradiance received by said fluid flowing above said uppermost UV source.